

Applicant(s): Iellici et al.
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AMENDMENTS TO THE CLAIMS

Please amend the claims to read as follows and cancel the claims marked cancelled without prejudice to their being filed in a divisional or continuation application:

1. (Currently Amended) An integrated antenna device comprising a first, dielectric antenna ~~component~~ and a second, electrically-conductive antenna ~~component~~, wherein the first and second ~~antennas components~~ are not electrically connected to each other but are mutually arranged such that the second ~~component antenna~~ is parasitically driven by the first ~~component antenna~~ when the first ~~component antenna~~ is fed with a predetermined signal wherein the second antenna is connected to ground, and wherein the first and second antennas are configured to radiate in different frequency bands.

2. (Currently Amended) A device as claimed in claim 1, wherein the first antenna ~~component~~ comprises a dielectric resonator antenna formed as a dielectric pellet mounted on a first side of a dielectric substrate and provided with a feeding mechanism, a second, opposed side of the dielectric substrate being provided with a conductive groundplane covering at least an area corresponding to an area on the first side occupied by the pellet.

3. (Currently Amended) A device as claimed in claim 1, wherein the first antenna ~~component~~ comprises a high dielectric antenna formed as a dielectric pellet having no ground plane ~~mounted on a first side of a dielectric substrate~~ and provided with a feeding mechanism.

4. (Currently Amended) A device as claimed in claim 1, wherein the first antenna ~~component~~ comprises a dielectrically loaded antenna.

5. (Currently Amended) A device as claimed in claim 1, wherein the second antenna ~~component~~ is a patch antenna, slot antenna, monopole antenna, dipole antenna or planar inverted-L antenna.

6. (Canceled)

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7. (Currently Amended) A device as claimed in claim 3 wherein the first antenna ~~component~~ comprises a dielectric pellet mounted on the first side of a dielectric substrate, a microstrip feed located on the first side of the dielectric substrate and extending between the substrate and the dielectric pellet, and a conductive layer formed on a second side of the dielectric substrate opposed to the first side of the dielectric substrate, wherein an aperture is formed in the conductive layer or the conductive layer is removed from the second side of the dielectric substrate at a location corresponding to that of the dielectric pellet.

8. (Currently Amended) A device as claimed in claim 3 wherein the first antenna ~~component~~ comprises a dielectric antenna comprising a microstrip feed located on a first side of a dielectric substrate, a conductive layer formed on a second side of the substrate opposed to the first side of the dielectric substrate and having an aperture formed therein, wherein a dielectric pellet is mounted on a second side of the dielectric substrate within or at least overlapping the aperture.

9. (Currently Amended) A device as claimed in claim 1, wherein the second antenna ~~component~~ is located adjacent the first antenna ~~component~~.

10. (Currently Amended) A device as claimed in claim 1, wherein the second antenna extends over a top surface of the first antenna ~~component~~.

11. (Currently Amended) A device as claimed in claim 6 1 wherein the first antenna ~~component~~ is adapted to radiate at a frequency lower than the second antenna ~~component~~.

12. (Currently Amended) A device as claimed in claim 6 1 wherein the first antenna ~~component~~ is adapted to radiate at a frequency higher than the second antenna ~~component~~.

13. (Canceled)

14. (New) A device as claimed in claim 3 wherein the dielectric pellet is mounted on a dielectric substrate.